

AMENDMENTS TO THE CLAIMS:

This listing of claims replaces all prior versions, and listings, of claims in the application.

1. (Currently amended) An imaging device comprising
an image memory for storing images,
a lenslet array with at least four lenses,
at least one image capturing subsystem of a first type, comprising a lens arrangement including three lenses from the lenslet array and a portion of a sensor array, configured to produce images,
at least one image capturing subsystem of a second type comprising a lens arrangement including the fourth lens from the lenslet array and a portion of the sensor array, having optical or light gathering properties different from the subsystem of first type, configured to produce an image, and
a controller configured to select the subsystem with which an image is to be taken wherein an image is captured and stored only with the selected subsystem.
2. (Original) The device of claim 1, wherein the image capturing subsystem of the second type comprises a macro lens arrangement.
3. (Original) The device of claim 1, wherein the image capturing subsystem of the second type comprises a high magnification lens arrangement.
4. (Original) The device of claim 1, wherein the image capturing subsystem of the second type comprises a tele lens arrangement.
5. (Original) The device of claim 1, wherein the image capturing subsystem of the second type comprises a wide-angle lens arrangement.

6. (Original) The device of claim 1, wherein the image capturing subsystem of the second type comprises an anamorphically cylindrical lens.

7. (Original) The device of claim 1, wherein the image capturing subsystem of the second type comprises a color matrix filter, and the controller is configured to take images with the subsystems in sequence to capture fast motion objects.

8. (Original) The device of claim 1, wherein the resolution of the image produced by the image capturing subsystem of the second type is a resolution used in videoconferencing applications.

9. (Original) The device of claim 8, wherein the resolution of the image produced by the image capturing subsystem of the second type is CIF or QCIF.

10. (Original) The device of claim 1, wherein the image capturing subsystems comprise a lens system and a sensor array configured to produce an electric signal and the device comprises a processor operationally connected to the sensor arrays and configured to produce an image proportional to the electrical signal received from the sensor arrays.

11. (Original) The device of claim 10, wherein the device comprises a sensor array divided between image capturing subsystem types.

12-13. (Canceled)

14. (Currently amended) The device of claim ~~[[13]]~~¹ wherein image capturing subsystem of a first type is configured to produce a color image and the image capturing subsystem of the second type is configured to produce an image.

15. (Original) The device of claim 14, wherein the lens arrangement of the image capturing subsystem of the first type comprises a red, green and blue color filter, each associated with a lens.

16. (Original) The device of claim 14, wherein the lens arrangement of the image capturing subsystem of the first type comprises a cyan, magenta and yellow color filter, each associated with a lens.

17. (Original) The device of claim 14, wherein the lens arrangement of the subsystem of the second type comprises a Bayer matrix.

18. (Currently amended) The device of claim ~~[[13]]~~1, wherein the image capturing subsystems of the first and the second type are configured to produce images in the same color space.

19. (Currently amended) An imaging device comprising
an image memory for storing images,
a lenslet array with four lenses,
at least one sensor array,
an image capturing subsystem of a first type comprising a lens arrangement,
configured to produce images, the lens arrangement of the image capturing subsystem of a first type device comprising ~~at least three~~ lenses from the lenslet array, and a sensor array,
an image capturing subsystem of a second type comprising a lens arrangement,
having optical or light gathering properties different from the subsystem of first type,
configured to produce an image, the lens arrangement of the image capturing subsystem of a second type device comprising at least one lens from the lenslet array, and a sensor array,
and
a controller configured to select the subsystem with which an image is to be taken
and to capture and store an image only with the selected subsystem.

20. (Previously presented) The device of claim 19, wherein the device comprises a sensor array divided between image capturing subsystem types.

21. (Previously presented) The device of claim 19, wherein the image capturing subsystem of the first type is configured to produce a color image.

22. (Currently amended) A method comprising:

collecting first image data via an image capturing subsystem of a first type
comprised of three lenses from a lenslet array and a portion of a sensor array;

collecting second image data via an image capturing subsystem of a second type
comprised of a fourth lens from the lenslet array and a portion of the sensor array having optical or light gathering properties different from the subsystem of the first type, wherein the first and second image data correspond to the same image;

selecting the subsystem with which to capture the image;

capturing the image with only one subsystem; and

storing the captured image in an image memory.

23. (Previously presented) The method of claim 22, further comprising capturing the image in color via the image capturing subsystem of the first type.

24. (Previously presented) The method of claim 22, further comprising capturing the image in color via the image capturing subsystem of the second type.